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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,487	08/25/2003	Mark J. Buenz	21220.04136 (GR202AS050)	2367
24024	7590 04/20/2006		EXAMINER	
CALFEE HALTER & GRISWOLD, LLP 800 SUPERIOR AVENUE			SWARTHOUT, BRENT	
SUITE 1400	KAVENOL		ART UNIT	PAPER NUMBER
CLEVELANI	O, OH 44114		2612	
			DATE MAILED: 04/20/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<del></del>
	10/647,487	BUENZ ET AL.	
Office Action Summary	Examiner	Art Unit	
	Brent A. Swarthout	2612	•
The MAILING DATE of this communication			ress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILI  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicate  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a tion.  y period will apply and will expire SIX (6) MC y statute, cause the application to become a	NICATION.  a reply be timely filed  ONTHS from the mailing date of this com  ABANDONED (35 U.S.C. § 133).	·
Status			
1) Responsive to communication(s) filed on	04 August 2005.		
2a)⊠ This action is <b>FINAL</b> . 2b)□	_		
3) Since this application is in condition for a		atters, prosecution as to the r	nerits is
closed in accordance with the practice ur			
Disposition of Claims			
4)⊠ Claim(s) <u>1-30 and 38-47</u> is/are pending in	n the application.		
4a) Of the above claim(s) is/are wi	• •		
5)⊠ Claim(s) <u>1-30</u> is/are allowed.			
6) Claim(s) 38,41-44,46 and 47 is/are reject	ted.		
7) Claim(s) 39,40 and 45 is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa	aminer		
10) The drawing(s) filed on is/are: a)		o by the Examiner.	
Applicant may not request that any objection			
Replacement drawing sheet(s) including the o		•	₹ 1.121(d).
11) The oath or declaration is objected to by t	the Examiner. Note the attach	ed Office Action or form PTC	)-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo	oreian priority under 35 U.S.C.	. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	, , ,		
1.☐ Certified copies of the priority docu	uments have been received.		
2. Certified copies of the priority docu		Application No	
3. Copies of the certified copies of the	e priority documents have bee	n received in this National S	tage
application from the International E	3ureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for	a list of the certified copies no	ot received.	
Attachment(s)			
i)	,	v Summary (PTO-413) o(s)/Mail Date	
., produce of brancaperson a fracent brawing review (FTU-9*	TU)	,	
Information Disclosure Statement(s) (PTO-1449 or PTO/S	SB/08) 5) Notice of	Informal Patent Application (PTO-1 O IDS Filed 8-25-03 is of re	152)

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1. Claims 1-30 are allowed.

- 2. Claims 39,40 and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
  - a. Claims 38,41-44 and 46-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al.

Tanaka discloses resonant circuit C1 (Fig. 20) at a vehicle wheel, monitoring tire pressure with resonant circuit C1 (col. 8, lines 32-36), generating a variable frequency signal via circuit 33, magnetically coupling the variable frequency to resonant circuit (col. 8, lines 15-20), inducing a change in the resonant circuit indicative of pressure (col.8, lines 20-35; col.7, lines 49-57), E-field (or electromagnetically) coupling the resonant frequency to a receiver circuit (col.9, lines 20-25; col.10, lines 3-17) and finding a pressure reading from the coupled resonant frequency (col.8, lines 35-36), except for specifically stating that aircraft tire pressure is sensed.

It would have been obvious to one of ordinary skill in the art to sense aircraft tire pressure using the system of Tanaka, in order that an aircraft could have had accurate pressure readings, it being noted that it would have been an obvious manner of intended use to use a tire pressure detection system with aircraft tires as opposed to any other type of vehicle tires.

Regarding claim 42, Tanaka teaches use of phase difference detection 200.

Regarding claim 43, Tanaka teaches generating frequencies over different ranges including the resonant frequency (col. 10, lines 3-17).

Regarding claims 46-47, choosing to transmit pressure readings over a bus or use a non-volatile indicator would have been obvious since such bus is standard on aircraft for conveying parameter information and a non-volatile indicator would have been obvious in order to prevent loss of data.

- 4. Regarding applicant's remarks filed with the response on 8-4-05, on pages 9-10 it is stated that Tanaka discloses use of magnetic field as opposed to an E-field. However, since Tanaka teaches that the generated field is an "electromagnetic" field (col. 8, line 20), such would have satisfied the limitation of an E-field, since fields generated by electromagnetic coils are used (col. 10, lines 10-17), the claims not setting forth particular structure to differentiate an E-field from an electromagnetic field.
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent A. Swarthout whose telephone number is 571-272-2979. The examiner can normally be reached on M-F from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass, can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

**Brent A Swarthout** 

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Examiner Art Unit 2636

> BRENT A. SWARTHOUT PRIMARY EXAMINER